

Notice of Allowability

Application No.

09/893,995

Examiner

Anjan K Deb

Applicant(s)

SOHN, SEONG WOO

Art Unit

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment 12/30/03, and interview summary 3/4/04.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☒ The drawings filed on 29 June 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 3/3/04.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

ANJAN DEB
PRIMARY EXAMINER

DETAILED ACTION

1. This office action is in response to amendment filed 13/30/03 and interview summary 3/3/04.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview (interview summary attached) with attorney on 3/3/04.

Claim 1 is amended as follows:

Claim 1 (amended): A probe frame assembly of an inspection apparatus for a liquid crystal display device, comprising:
at least two separate probe frame bodies provided above an upper surface of a chuck loaded with a glass substrate having a plurality of liquid crystal display for simultaneously applying test pattern signals to shorting bars provided on the plurality of liquid crystal display panels.

Allowable Subject Matter

2. Claims 1-19 are allowed.

The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of claims 1-17 is the inclusion of a chuck loaded with a glass substrate having plurality of liquid crystal display panels, and probe assembly including at least two separate frame bodies being provided above an upper surface of the chuck for simultaneously applying test pattern signals on each of the plurality of liquid crystal display panels in combination with the remaining claimed limitations.

Claims 18-19 are allowed for a method of using the claimed apparatus for the same reasons as above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Pertinent Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lee et al. (US 6,587,160 B2) discloses testing plurality of liquid crystal display (LCD) panels on a glass substrate (column 1 lines 27-30) with probes by applying test signals to shorting bars (column 2 lines 7-15, column 3 lines 33-42). Lee et al. lacks probe assembly including at least two separate frame bodies being provided above an upper surface of a chuck loaded with a glass substrate having plurality of liquid crystal display panels for simultaneously applying test pattern signals on each of the plurality of liquid crystal display.

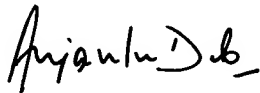
Mohebban (US 4,823,078) discloses probe apparatus (Fig. 1) for testing plurality of LCD display panels 4 (Fig. 4). Mohebban lacks probe assembly including at least two separate frame bodies being provided above an upper surface of a chuck loaded with a glass substrate having plurality of liquid crystal display panels for simultaneously applying test pattern signals on each of the plurality of liquid crystal display.

Art Unit: 2858

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is (703) 308-2941. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le, can be reached at (703)-308-0750.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone numbers are (703)-308-0956 and (703)-305-4900.



Anjan K. Deb

Patent Examiner

Art Unit: 2858

3/4/04

Tel: 703-308-2941

Fax : 703-746-4466

E-mail : anjan.deb@uspto.gov